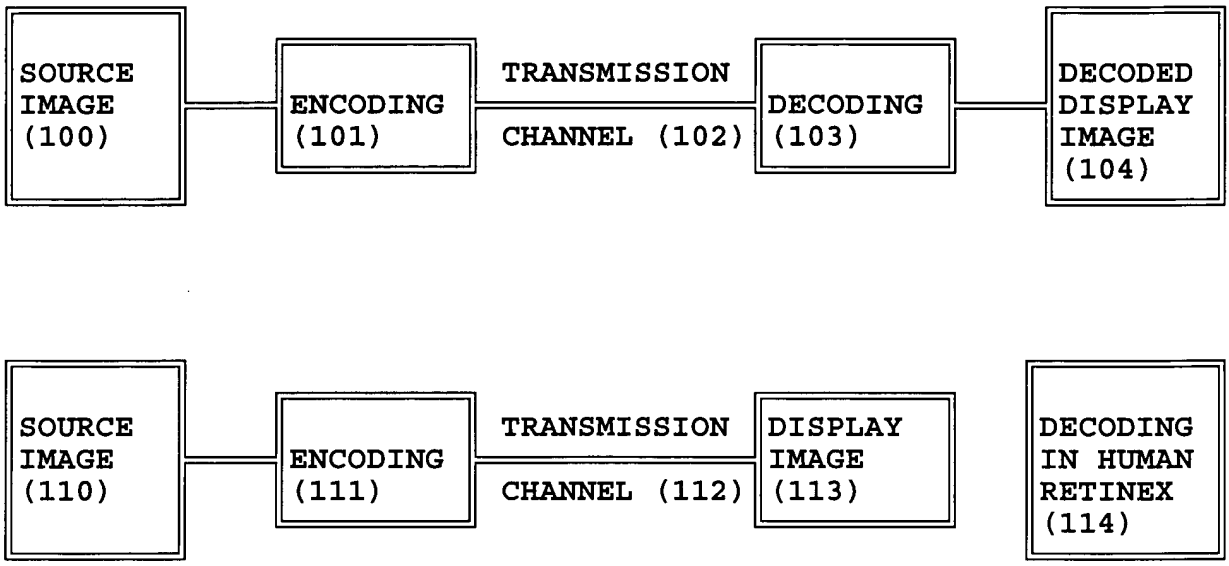

SOURCE IMAGE (100)
ENCODING (101)
TRANSMISSION CHANNEL (102)
DECODING (103)
DECODED DISPLAY IMAGE (104)
SOURCE IMAGE (110)
ENCODING (111)
TRANSMISSION CHANNEL (112)
DISPLAY IMAGE (113)
DECODING IN HUMAN RETINEX (114)

FIGURE 1

SOURCE

A* 11	B 11	A* 12	B 12	A* 13	B 13
D 11	C 11	D 12	C 12	D 13	C 13
A* 21	B 21	A* 22	B 22	A* 23	B 23
D 21	C 21	D 22	C 22	D 23	C 23
A* 31	B 31	A* 32	B 32	A* 33	B 33
D 31	C 31	D 32	C 32	D 33	C 33

DESTINATION

A 11	A 11	A 12	A 12	A 13	A 13
A 11	A 11	A 12	A 12	A 13	A 13
A 21	A 21	A 22	A 22	A 23	A 23
A 21	A 21	A 22	A 22	A 23	A 23
A 31	A 31	A 32	A 32	A 33	A 33
A 31	A 31	A 32	A 32	A 33	A 33

FIGURE 2

SOURCE

A 11	B 11	A 12	B 12	A 13	B 13
D 11	C 11	D 12	C 12	D 13	C 13
A 21	B 21	A 22	B 22	A 23	B 23
D 21	C 21	D 22	C 22	D 23	C 23
A 31	B 31	A 32	B 32	A 33	B 33
D 31	C 31	D 32	C 32	D 33	C 33

DESTINATION

X 11	X 11	X 12	X 12	X 13	X 13
X 11	X 11	X 12	X 12	X 13	X 13
X 21	X 21	X 22	X 22	X 23	X 23
X 21	X 21	X 22	X 22	X 23	X 23
X 31	X 31	X 32	X 32	X 33	X 33
X 31	X 31	X 32	X 32	X 33	X 33

FIGURE 3

SOURCE

A* 11	B 11	A* 12	B 12	A* 13	B 13
D 11	C 11	D 12	C 12	D 13	C 13
A* 21	B 21	A* 22	B 22	A* 23	B 23
D 21	C 21	D 22	C 22	D 23	C 23
A* 31	B 31	A* 32	B 32	A* 33	B 33
D 31	C 31	D 32	C 32	D 33	C 33

DESTINATION

A 11	A 11	A 12	A 12	A 13	A 13
A 11	A 11	A 12	A 12	A 13	A 13
A 21	A 21	A 22	A 22	A 23	A 23
A 21	A 21	A 22	A 22	A 23	A 23
A 31	A 31	A 32	A 32	A 33	A 33
A 31	A 31	A 32	A 32	A 33	A 33

FIGURE 4A

SOURCE

A 11	B* 11	A 12	B* 12	A 13	B* 13
D 11	C 11	D 12	C 12	D 13	C 13
A 21	B* 21	A 22	B* 22	A 23	B* 23
D 21	C 21	D 22	C 22	D 23	C 23
A 31	B* 31	A 32	B* 32	A 33	B* 33
D 31	C 31	D 32	C 32	D 33	C 33

DESTINATION

B 11	B 11	B 12	B 12	B 13	B 13
B 11	B 11	B 12	B 12	B 13	B 13
B 21	B 21	B 22	B 22	B 23	B 23
B 21	B 21	B 22	B 22	B 23	B 23
B 31	B 31	B 32	B 32	B 33	B 33
B 31	B 31	B 32	B 32	B 33	B 33

FIGURE 4B

Document Page Count Limit

SOURCE

A 11	B 11	A 12	B 12	A 13	B 13
D 11	C* 11	D 12	C* 12	D 13	C* 13
A 21	B 21	A 22	B 22	A 23	B 23
D 21	C* 21	D 22	C* 22	D 23	C* 23
A 31	B 31	A 32	B 32	A 33	B 33
D 31	C* 31	D 32	C* 32	D 33	C* 33

DESTINATION

C 11	C 11	C 12	C 12	C 13	C 13
C 11	C 11	C 12	C 12	C 13	C 13
C 21	C 21	C 22	C 22	C 23	C 23
C 21	C 21	C 22	C 22	C 23	C 23
C 31	C 31	C 32	C 32	C 33	C 33
C 31	C 31	C 32	C 32	C 33	C 33

FIGURE 4C

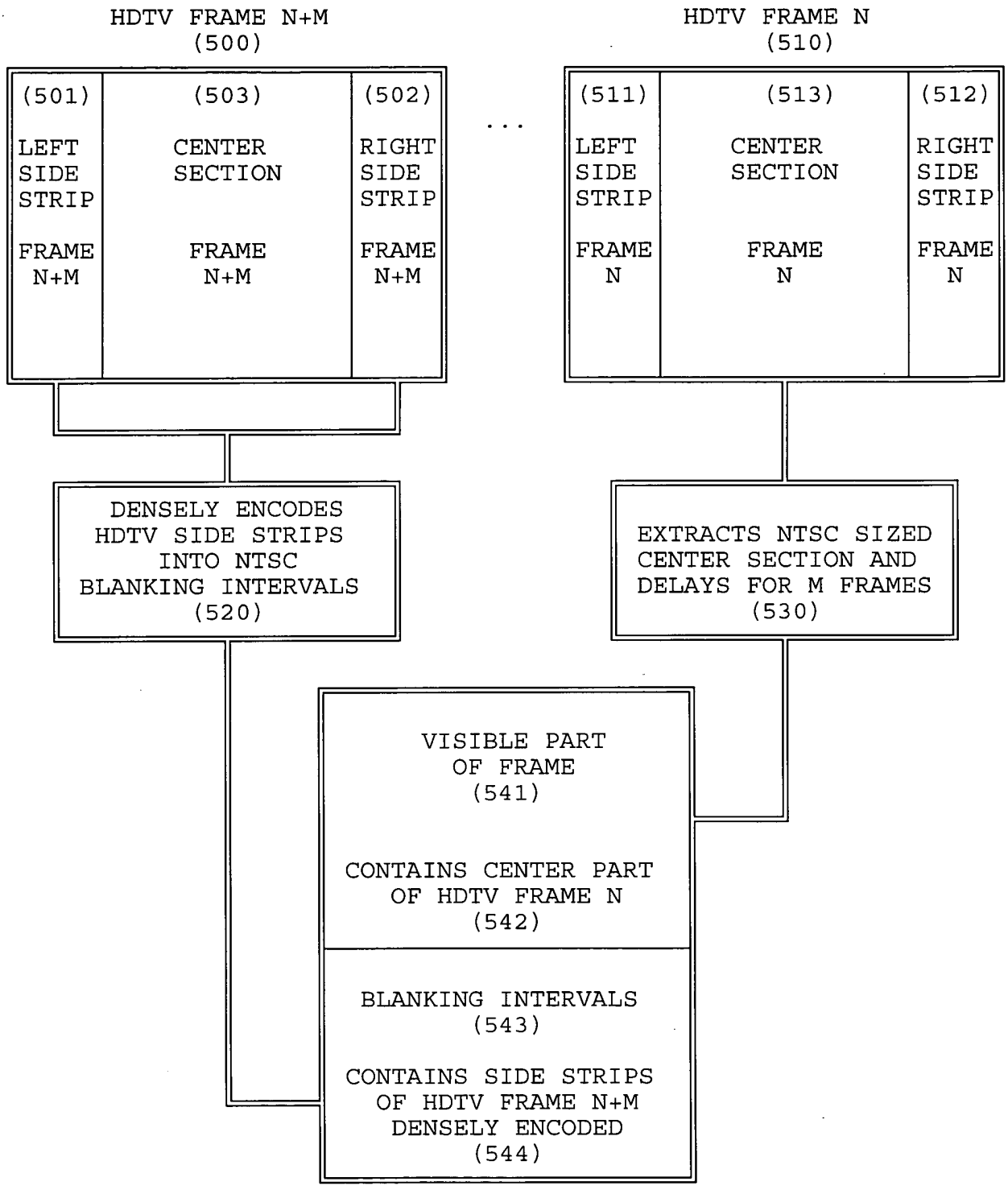
SOURCE

A 11	B 11	A 12	B 12	A 13	B 13
D* 11	C 11	D* 12	C 12	D* 13	C 13
A 21	B 21	A 22	B 22	A 23	B 23
D* 21	C 21	D* 22	C 22	D* 23	C 23
A 31	B 31	A 32	B 32	A 33	B 33
D* 31	C 31	D* 32	C 32	D* 33	C 33

DESTINATION

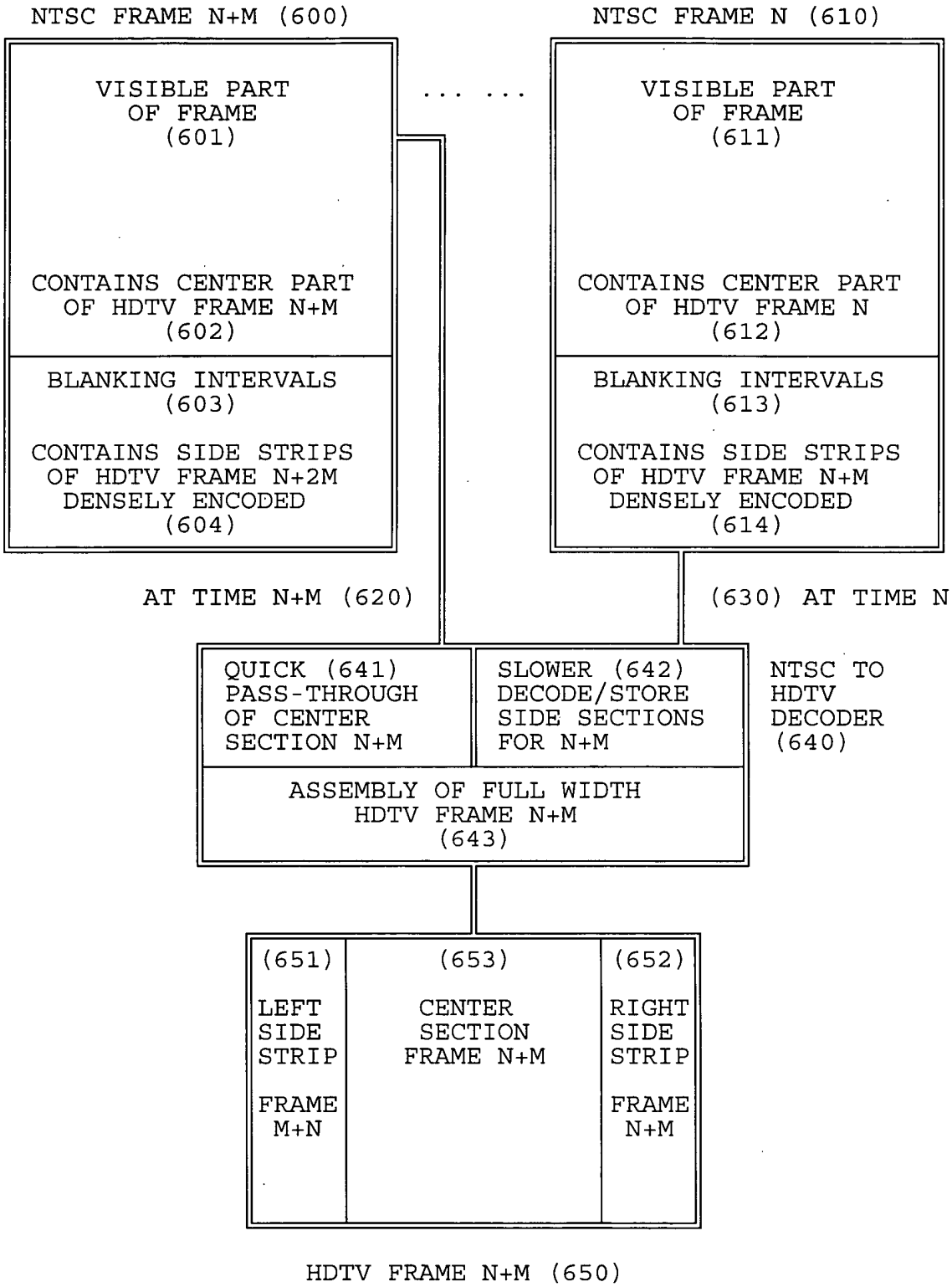
D 11	D 11	D 12	D 12	D 13	D 13
D 11	D 11	D 12	D 12	D 13	D 13
D 21	D 21	D 22	D 22	D 23	D 23
D 21	D 21	D 22	D 22	D 23	D 23
D 31	D 31	D 32	D 32	D 33	D 33
D 31	D 31	D 32	D 32	D 33	D 33

FIGURE 4D



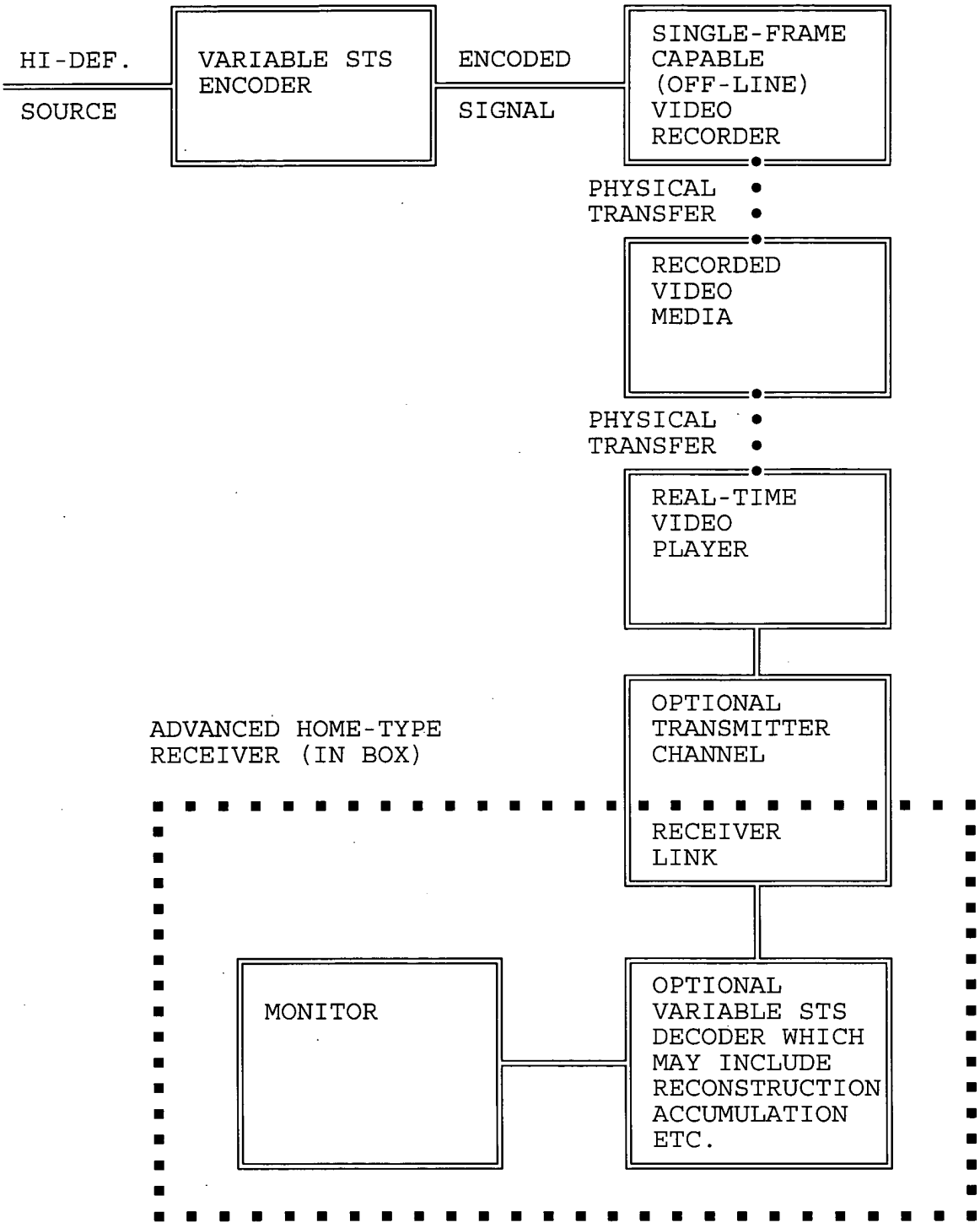
ENCODING OF HDTV "SIDE STRIPS" INTO NTSC BLANKING INTERVALS WHICH MAY BE OF A PREVIOUS FRAME

FIGURE 5



DECODING OF HDTV "SIDE STRIPS" FROM NTSC BLANKING INTERVALS WHICH MAY BE OF PREVIOUS FRAME

FIGURE 6



OFF-LINE RECORDING AND REAL-TIME PLAYBACK/DELIVERY

FIGURE 7